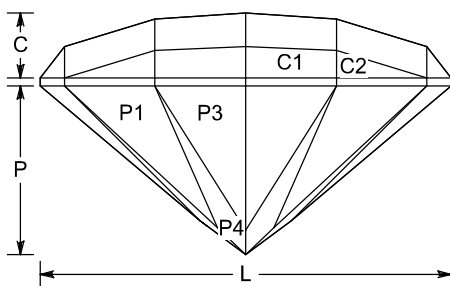
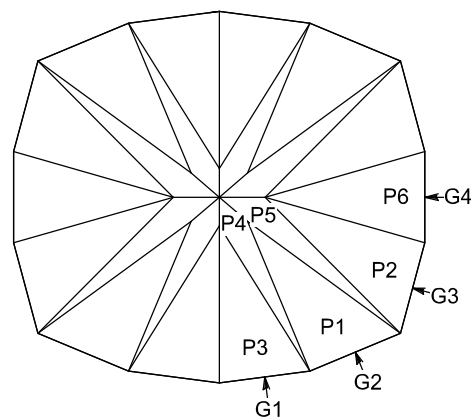
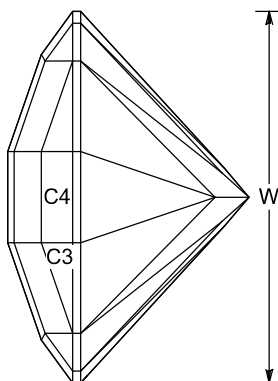
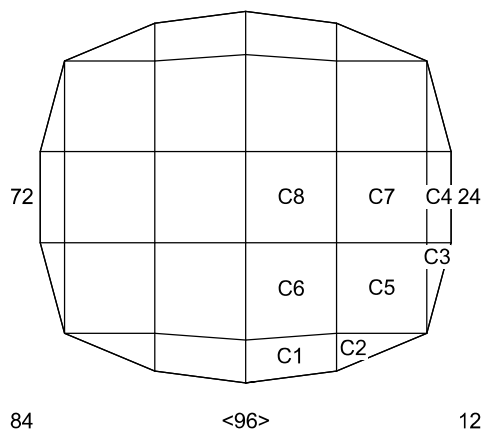


60

48

36



## Equivalent Exchange

by Arya Akhavan (March 2013)

Angles for R.I. = 1.620

48 + 14 girdles = 62 facets

2-fold, mirror-image symmetry

96 index

$L/W = 1.109$

$P/W = 0.454$   $C/W = 0.175$

$Vol./W^3 = 0.257$

### PAVILION

P1	41.14°	06-42-54-90	Cut to centerpoint.
P2	39.01°	20-28-68-76	Meet at culet.
P3	42.82°	02-46-50-94	Meet at culet.
G1	90.00°	02-46-50-94	Set stone width.
G2	90.00°	06-42-54-90	Level girdle.
G3	90.00°	20-28-68-76	Level girdle.
P4	41.40°	04-44-52-92	Meet P1, P3, G1, G2
P5	38.03°	19-29-67-77	Meet P1, P2, G2, G3; culet
P6	40.10°	24-72	Meet P2, P5
G4	90.00°	24-72	Level girdle.

### CROWN

C1	36.35°	02-46-50-94	Set girdle width.
C2	38.30°	06-42-54-90	Level girdle.
C3	53.09°	20-28-68-76	Level girdle.
C4	52.13°	24-72	Level girdle.
C5	24.63°	11-37-59-85	Meet G2, G3, C2, C3
C6	19.36°	03-45-51-93	Meet C1, C2, C5
C7	16.82°	24-72	Meet C3, C4, C5
C8	3.92°	24-72	Meet C5, C6, C7

All I wanted for this design was a 3 by 4 checkerboard, but for some reason any change on one side would result in an opposite tweak on the other side, for maintaining the squares and light output, hence the name. Works in materials from tourmaline to GGG (RI = 1.62 - 2.03) with no changes, and looks hallucinogenic in CZ. Suggested length = 7-12 mm

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